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(54) **Reactive probe chip, composite substrate and method for fabrication of the same**

(57) A reaction probe chip which is prepared by loading a reactive probe on fine pieces of carrier such as particles, tile-like plates and then arraying and immobilizing the reactive probe-loaded carrier on a base material. The carrier fine pieces such as particles, tile-like plates and the like are porous or have a reactive surface, and the base material is preferably a thin inorganic plate or a thin organic plate is disclosed.

The inorganic base material is preferably a glass slide or silicon wafer, and the organic base material is preferably a polyester film or polyethylene film. In case the porous carrier pieces are used, the reactivity of the

inner surfaces of the porous carrier pores should be maintained during array or immobilization process of the reactive probe-loaded carrier.

A composite substrate characterized in that on at least a section of the surface thereof, a plurality of porous regions are orderly arranged as compartments by non-porous regions, or a plurality of non-porous regions are orderly arranged as compartments by porous regions is also disclosed. The porous solid is preferably porous glass or porous ceramic, the porous glass is preferably split-phase porous glass, and the surface is preferably flattened by a process such as polishing.

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# EUROPEAN SEARCH REPORT

Application Number  
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### TECHNICAL FIELDS SEARCHED (Int.Cl.7)

G01N  
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Place of search

THE HAGUE

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